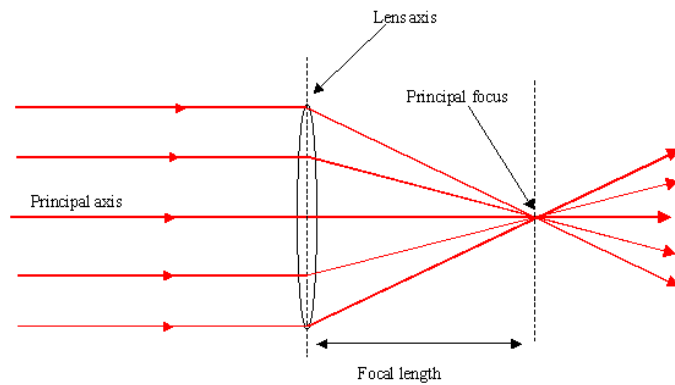


Welcome to PHYSICS!!!

SECA Physics
Tuesday 24 June 2014

H. Leslie Grebe



Opening Question:

How do you think mirrors and lenses are similar or different?

Sep 7-7:04 AM

Let's experiment with a convex lens

=> converges light

Need a partner

- find focal length of lens
- find object and image distances

What did we find???

Focal length?

Like Mirror???

Orientation?

Inside focal length what happened?

As flashlight moved farther,
screen moved _____

As flashlight moved farther,
image got _____

Nov 16-7:37 AM

Our 3 Questions

- * Most periods except test/project times
- * 3 Questions on the topics of the class
- * Main source of classwork points
- * I am happy to give full credit when I have no concerns about someone giving or getting help with the answers.

You can't get your points if you don't have your **NAME!!!**

Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

1) What is the name of the distance where parallel light rays will be focused by a converging lens?

- object distance
- image distance
- focal length

2) **True or False:**

Images that form clearly on a cardboard screen (real images) are flipped (upside down).

3) What happens to the image size as the flashlight is moved farther from the lens?

- image gets **smaller**
- image stays the **same size**
- image gets **bigger**

Jun 18-11:20 AM

Welcome back...

H. Leslie Grebe



Opening Question:

Is there a way to predict where and how big an image will be?

Sep 7-7:04 AM

Mirror Equations

$$\frac{1}{d_o} + \frac{1}{d_i} = \frac{1}{f}$$

$$M = \frac{h_i}{h_o} = -\frac{d_i}{d_o}$$

- d = distance
- h = height
- o = object
- i = image
- f = focal length
- M = magnification factor

Object defines “+” quadrant

All distances from mirror.

<http://www.physicsclassroom.com/Class/refln/U13L3d.cfm>

<http://www.physicsclassroom.com/Class/refln/u13l4b.cfm>

Jun 24-11:46 AM

Our 3 Questions

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Name	Period
1.	
2.	
3.	

Sep 9-7:32 AM

Welcome back...

H. Leslie Grebe



Opening Question:

Need to take the test?

Otherwise grab a worksheet and get ready for the video...

Sep 7-7:04 AM

Test Time!!!

H. Leslie Grebe

- * Get out your sheet of notes
- * Mix it up - one student per table, then sit diagonally with someone you don't usually sit by
- * On desk please only
 - pen/cil - test -note sheet
 - calculator -beverage
- * Please NO PEDs or talking while ANY tests are out

DO YOUR
BEST &
THEN GUESS
IF NEEDED

Sep 7-7:04 AM

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1.	
2.	
3.	

Sep 9-7:32 AM

- 1) What from the play was compared to Newton's view of space?
- 2) What did Casimir predict would happen to 2 metal plates placed very close together?
- 3) What % of the universe is dark energy?
- 3b) What aspect of light interested Einstein?

Jun 23-11:30 AM